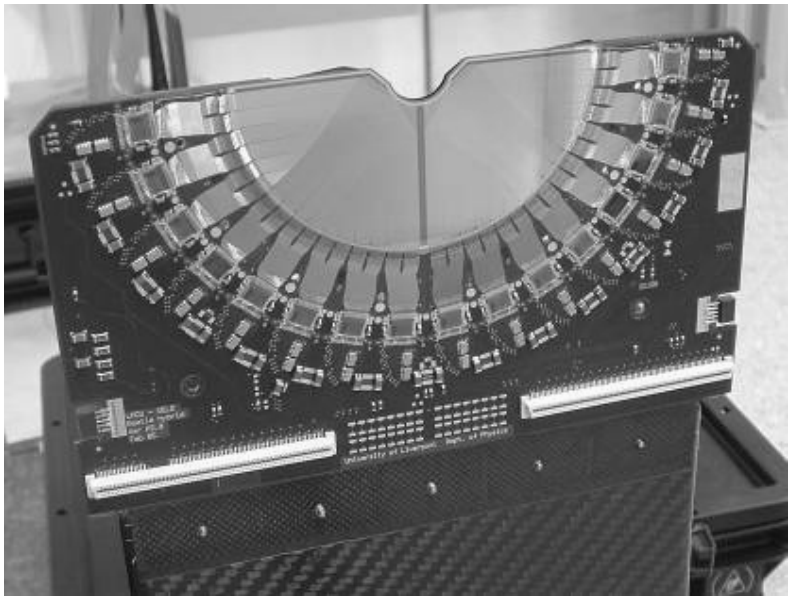
# T-971 Overview

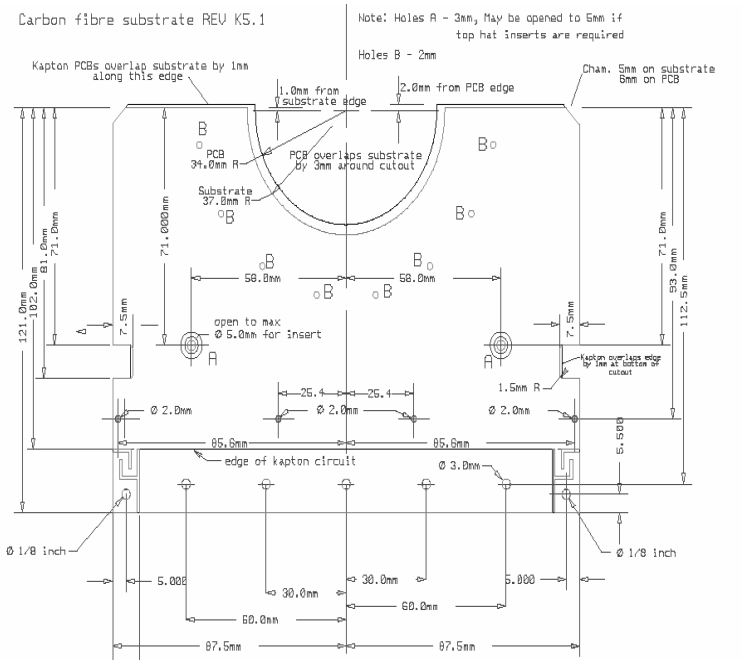


- Test the spatial resolution of irradiated and non irradiated VELO sensors built with the baseline technology ($n^{+}$-on-n strips) and the one planned for spare module construction ($n^{+}$on-p) [2 modules in R-R, phi-phi geometry implemented with a mixture of the 2 technologies and irradiated/non irradiated detectors]
- Test alternative geometries that can be used in future VELO upgrade
- Initial step of a R&D plan to be carried out over the next 3 years

# The team & responsibilities

- Syracuse University (M.A., G. Lefeuvre, J. Wang, R. Mountain, S. Stone): help with telescope commissioning and VELO/pixel system integration, data quality monitoring, and analysis tools
- University of Liverpool (Themis Bowcock,Gianluigi Casse, Tony Affolder): sensor module production
- University of Glasgow (C. Parkes,T. Szumlak L. Ecklund) VELO DAQ, VELO/Telescope synchronization
- Paula Collins (CERN) data taking and analysis

# Status of LHCb deliverables




Mechanical drawing of VELO hybrid

- Modules have been irradiated and should be ready ~ October.
- Interface board under development at Glasgow
- The collaboration is working with the expectation that we will take data ~February 2008
- Syracuse is committed to help in getting the telescope ready within this timeline